



Galaxy Perforated Aluminum Guardrails

These perforated aluminum panels create a division of space for privacy, while still providing translucence. In addition to regulating ventilation, noise, shade, and visibility, perforated panels offer a modern aesthetic tone, perfect for balconies, decks, and other high places.

Part 1 - GENERAL

1.1 WORK INCLUDED:

- A. Provide aluminum railing in lengths per approved engineering drawings.
 1. Prefabricated perforated aluminum fence
 2. Mounting components and accessories
 3. Mechanical fasteners

1.2 SUBMITTALS:

- A. Material description and installation instructions.
- B. Shop Drawings
- C. Samples for Initial Selection

1.3 QUALITY ASSURANCE:

- A. Comply with Standards and Codes listed in Article 1.02 REFERENCES.
- B. Welding Qualifications: Qualify procedures and personnel according to the following:
 1. AWS D1.2/D1.2M, for aluminum.

1.4 WARRANTY:

- A. See manufacturer's warranty for specific details.

1.5 DELIVERY, STORAGE, AND HANDLING:

- A. Deliver materials to the job site in good condition. Purchaser to store in clean, dry location properly protected against damage to finished surfaces.

- B. Store away from uncured concrete, masonry, or stucco.

Part 2 - PRODUCTS

2.1 MATERIALS:

- A. Extrusion Alloy: 6061-T6 Series
- B. Perforated Panel Alloy 5052
- C. Screws, bolts, washers, hardware shall be stainless Steel or other corrosion resistant material.

2.2 FINISHES:

- A. Anodized Finish: Clear anodized to comply with AA-M12C22A41 for a class 1 coating, complying with AAMA 611, or:
- B. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605.

2.3 FRAME COMPONENTS:

SPECIFIER: Perforations, including distance between perforations (NOT less than the thickness of the aluminum plate). NOT more than 10 different sizes and shapes of perforations are allowed. MAXIMUM size of any perforation cannot exceed 2 1/2 inches.

- A. Aluminum Tube Posts: 6061-T6 alloy, 0.250-inch wall thickness.
- B. Aluminum Tube Horizontals: ASTM B209, 5052 alloy, 0.125-inch thick.
- C. Exposed Fasteners: Button head screws or bolts, consistent with design of fence.
- D. Welding Electrodes: Comply with AWS requirements in D1.1 and D1.2.
- E. Aluminum Component Fasteners: Type 304 stainless-steel fasteners.

Part 3 - EXECUTION

3.1 PROJECT CONDITIONS:

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication. Indicate field measurements on final shop drawings.

B. Established Dimension: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating handrails and railings without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

3.2. INSTALLATION:

A. Install work in accordance with manufacturer's instructions.

STANDARDS AND CODES

- International Building Code, 2012 Edition
- Minnesota State Building Code, 2015 Edition
- The Society for Protective Coatings
- The Aluminum Association, Inc.
- American Architectural Manufacturers Association
- American Society for Testing & Materials
- American Welding Society
- Americans with Disabilities Act Accessibility Guidelines

STRUCTURAL PERFORMANCE

Horizontal concentrated load of 50 lbf. applied to 1 sq. ft. at any point in system, including panels, intermediate rails, balusters, or other elements composing infill area.



StellarCraft™ Galaxy Guardrail is used in all railing applications that must comply with IBC for structural strength and dimensions.

